



Analytical Resources, Incorporated
Analytical Chemists and Consultants

RECEIVED
AUG 30 2007

August 28, 2007

Mike Erdahl
Friedman & Bruya
3012 - 16th Avenue West
Seattle, WA 9819-2029

Project: 708223 PO# H-1022
ARI Job: LL81

Dear Mike:

Please find enclosed the original *Chain of Custody* record, sample receipt paperwork, and analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted two water samples in good condition on August 17, 2007. Please refer to the enclosed *Cooler Receipt Form* for further details regarding sample receipt.

The samples were analyzed for Total Dissolved Solids (TDS), as requested on the *Chain of Custody*.

The analysis was completed free of irregularities.

Quality control analysis results are included for your review. Copies of the reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Respectfully,

ANALYTICAL RESOURCES, INC.

Eric Branson
Project Services Associate
(206) 695-6213
eric@arilabs.com

www.arilabs.com

• Enclosures •



Cooler Receipt Form

ARI Client: FBI

Project Name: 708223

COC No:

Delivered by: Courier

Assigned ARI Job No: 6681

Tracking No:

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES ☒ NO ☐
Were custody papers included with the cooler? ☒ YES NO ☐
Were custody papers properly filled out (ink, signed, etc.) ☒ YES NO ☐
Record cooler temperature (recommended 2.0-6.0 °C for chemistry) 11.6 °C

Cooler Accepted by: B. Dyl Date: 8/17/7 Time: 1445

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES ☒ NO ☐
What kind of packing material was used? ☐ YES ☐ NO ☐
Was sufficient ice used (if appropriate)? YES ☒ NO ☐
Were all bottles sealed in individual plastic bags? YES ☒ NO ☐
Did all bottle arrive in good condition (unbroken)? ☒ YES NO ☐
Were all bottle labels complete and legible? YES ☒ NO ☐
Did all bottle labels and tags agree with custody papers? ☒ YES NO ☐
Were all bottles used correct for the requested analyses? ☒ YES NO ☐
Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES ☒ NO ☐
Were all VOC vials free of air bubbles? ☒ NA YES ☐ NO ☐
Was sufficient amount of sample sent in each bottle? ☒ YES NO ☐

Samples Logged by: B. Dyl Date: 8/17/7 Time: 1450

**** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:


No Collection Dates/Times on COC

By:

Date:

INORGANICS ANALYSIS DATA SHEET
Total Dissolved Solids by Method EPA 160.1



Data Release Authorized: 
Reported: 08/27/07
Date Received: 08/17/07
Page 1 of 1

QC Report No: LL81-Friedman & Bruya, Inc.
Project: H-1022
708223

| Client/ ARI ID | Date Sampled | Matrix | Analysis Date & Batch | RL | Result |
|---------------------------------------|-----------------|--------|----------------------------|-----|--------|
| M117099A Prefilter LL81A 07-17165 | 08/16/07 | Water | 08/20/07 17:44 082007#1 | 5.0 | 57.5 |
| M117099B Postfilter LL81B 07-17166 | 08/16/07 | Water | 08/20/07 17:44 082007#1 | 5.0 | 43.0 |


Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

Report for LL81

REPLICATE RESULTS-CONVENTIONALS
LL81-Friedman & Bruya, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/27/07

Project: H-1022
Event: 708223
Date Sampled: 08/16/07
Date Received: 08/17/07

| Analyte | Date | Units | Sample | Replicate(s) | RPD/RSD |
|---------|------|-------|--------|--------------|---------|
|---------|------|-------|--------|--------------|---------|


ARI ID: LL81A Client ID: M117099A Prefilter

| | | | | | |
|------------------------|----------|------|------|------|------|
| Total Dissolved Solids | 08/20/07 | mg/L | 57.5 | 59.0 | 2.6% |
|------------------------|----------|------|------|------|------|

Water Replicate Report-LL81

LAB CONTROL RESULTS-CONVENTIONALS
LL81-Friedman & Bruya, Inc.



Matrix: Water
Data Release Authorized: 
Reported: 08/27/07

Project: H-1022
Event: 708223
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | LCS | Spike Added | Recovery |
|------------------------|----------------|-------|-----|-------------|----------|
| Total Dissolved Solids | 08/20/07 17:44 | mg/L | 520 | 500 | 104.0% |

Water Lab Control Report-LL81

AKC-0006703

METHOD BLANK RESULTS-CONVENTIONALS
LL81-Friedman & Bruya, Inc.



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 08/27/07

Project: H-1022
Event: 708223
Date Sampled: NA
Date Received: NA

| Analyte | Date/Time | Units | Blank |
|------------------------|----------------|-------|---------|
| Total Dissolved Solids | 08/20/07 17:44 | mg/L | < 5.0 U |

Water Method Blank Report-LL81

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 31, 2007



INVOICE #07ACU0831-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Burning Table Water PO# M117099, F&BI 708223 - Results of testing
requested by Gerry Thompson for material submitted on August 16, 2007.

2 samples analyzed for Total Dissolved Solids
by Method 160.1 @ \$27 per sample

\$ 54.00

Amount Due

\$ 54.00

FEDERAL TAX ID # (b) (6)

708223

SAMPLE CHAIN OF CUSTODY

ME 08/16/07

ALP

Send Report To

Gerald Thompson

Company

Alaska Copper works

Address

628 S. Harvard St

City, State, ZIP

Seattle WA 98134

Phone #

206-571-6033

Fax #

206-582-4309

SAMPLES (signature)

PROJECT NAME/NO.

Boring table water

PO #

M117099

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

| Sample ID | Lab ID | Date | Time | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-------------|--------|---------|-------|------------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|------------------------|--|--|--|-------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | Total Dissolved Solids | | | | |
| M117099A | 01 | 8/16/07 | 12:30 | H ₂ O | 1 | | | | | | | ✓ | | | | |
| Pre Filter | | | | | | | | | | | | | | | | |
| M117099B | 02 | 8/16/07 | 12:30 | H ₂ O | 1 | | | | | | | ✓ | | | | |
| Post Filter | | | | | | | | | | | | | | | | |
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Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|------------------|-------------|---------|---------|--------|
| Relinquished by: | G. Thompson | ACW | 8/16/07 | 1:40pm |
| Received by: | Nhan Phan | FeBI | 8/16/07 | 1:40 |
| Relinquished by: | | | | |
| Received by: | | | | |

Samples received at 27°C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 31, 2007

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 16, 2007 from the Burning Table Water PO# M117099, F&BI 708223 project. The samples were sent to Analytical Resources, Inc. for total dissolved solids analysis. Review of the enclosed report indicates that all quality assurance was acceptable.

Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0831R.DOC

LL81

SAMPLE CHAIN OF CUSTODY 11.6 1a-No

Send Report To Michael ErdahlCompany Friedman and Bruya, Inc.Address 3012 16th Ave WCity, State, ZIP Seattle, WA 98119Phone # (206) 285-8282 Fax # (206) 283-5044

SAMPLERS (signature)

PROJECT NAME/NO.

708223

PO #

H-1022

REMARKS

Please Fax Results

Page # 1 of 1

TURNAROUND TIME

☒ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

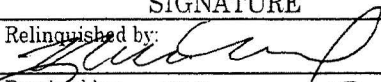
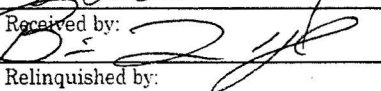
| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | | | | | | Notes |
|---------------------|--------|--------------|--------------|-------------|-----------------|--------------------|----------|----------|--------------|-----|-----|---------|---------|-----|--|--|-------|
| | | | | | | O&G w/o SG | O&G w/sg | Total Hg | Dissolved Hg | EPH | VPH | Nitrate | Sulfate | TDS | | | |
| M117099A Pref. Hr | | | | ✓ | 1 | | | | | | | | | X | | | |
| M117099B Post F. Hr | | | | ✓ | 1 | | | | | | | | | X | | | |
| | | | | | | | | | | | | | | | | | |
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Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|--|----------------|------------------|---------|----------|
| Relinquished by:  | Michael Erdahl | Friedman & Bruya | 8/17/04 | 11:00 AM |
| Received by:  | Brian Kegel | AKC | 8/17/04 | 1:45 |
| Relinquished by: | | | | |
| Received by: | | | | |